

## CLAIMS

1. A method for enhancement of audio source coding systems using high frequency reconstruction, characterised by:

5 adaptively over time selecting different methods for high frequency generation, based on whether the signal being processed has a pulse-train-like character or a non-pulse-train-like character.

2. A method according to claim 1, characterised in that said selection is done based on analysis by peak picking in a time- and frequency-domain representation of said signal.

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3. A method according to claim 1, characterised in that said different methods for high frequency generation are frequency translation and FD transposition.

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4. A method according to claim 1, characterised in that said different methods for high frequency generation are FD transposition with different window sizes.

5. A method according to claim 1, characterised in that said different methods for high frequency generation are time-domain pulse train transposition and FD transposition.